

# Mattia D'Urso

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github.com/mattiadurso  
Main languages: Python, R

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## Education

- Oct 2020 - Oct 2022 **Master of Science in Artificial Intelligence and Cybersecurity**, major in *Artificial Intelligence*, University of Studies of Udine (Italy) and Alpen-Adria-Universität Klagenfurt (Austria).  
**GPA:** 29.2/30
- **Relevant courses:** Foundation of Neural Networks, Deep Learning, Computer Vision, Complexity and Information Theory, Advanced Algorithms.
- Oct 2017 - Oct 2020 **Bachelor of Science (Hons) in Internet of Things, Big Data and Web**, University of Studies of Udine (Italy).

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## Experiences

- Mar 2021 – Current **Research**, Intern at Artificial Vision and Real-Time Systems (AViReS) Lab, under supervision of Prof. Gian Luca Foresti (president of the Italian Association for Research in Computer Vision, Pattern recognition and Machine Learning) and in collaboration with the European Defence Agency (EDA), the European Union, the Italian Ministry for the University and Research (MIUR), the Italian Ministry for Defence (MoD).
- Developed a deep learning model with **Torchvision** for autonomous flight with drones using computer vision.
  - tech
  - impact
- Jul 2020 – Sep 2020 **Research**, Intern at Department of Mathematics, Computer Science and Physics of University of Studies of Udine, under supervision of Prof. Claudio Picciarelli.
- Optimized our supervised deep learning model with **Pytorch** for classification of web users on a dataset of 6M+ of TCP/IP packets.
  - Increased the accuracy of the model by **42%** by hyperparameters fine tuning.
  - Developed Bachelor thesis: "*Classification of web users by shallow inspection of packets and Deep Learning techniques*".

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## Skills

- **Languages:** Python, R, L<sup>A</sup>T<sub>E</sub>X.
- **Libraries:** Pytorch, Torchvision, NumPy, dplyr, tidyverse, ggplot2.

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## Research Interests

- **Computer Vision**
- **Deep Learning**

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## Leadership and Awards

- Oct 2020 - Oct 2022 **Master of Science program**, selected as one of 30 participants worldwide for the Double Degree Master program in *Artificial Intelligence and Cybersecurity*.
- Oct 2018 - Today **Student representative**, reported to the Board of department and solved dozens of students problems of any kind.
- Jan 2018 - Today **Professional photographer**, worked independently and as a team in weddings, Michelin star events in the area and others.